

IVANOV, I.

Students of the Institute learn about grain handling machinery
and equipment by practice. Muk.-elev. prom. 24 no.7:30 JI '58.
(MIRA 11:10)

1.Dnepropetrovskiy mukomol'no-elevatornyy tekhnikum.
(Grain-handling machinery--Study and teaching)

IVOROV, I.
BARDIN, I.; BELAN, R.; BEKHTIN, N.; BOYKO, V.; BORISOV, A.; BYCHKOV, V.;
VASILENKO, S.; VINOGRADOV, V.; VISHNEVSKIY, A.; VODNEV, G.; DVORIN,
S.; DZHAPARIDZE, Ye.; DIDENKO, V.; D'YAKONOV, N.; ZHURAVLEV, S.;
ZAKHAROV, A.; IVANOV, I.; KIRSANOV, M.; KOLYADA, G.; KOROBV, P.;
LESKOV, A.; LUKICH, L.; LYUBIMOV, A.; MELESHKIN, S.; MYRTSYMOV, A.;
PERTSEV, M.; PETRUSHA, F.; PETERSKIY, A.; POPOV, I.; RAYZER, D.;
ROZHKOV, A.; SAPOZHNIKOV, L.; SEDOV, P.; SOKOLOV, P.; TEVOSYAN, I.;
TIKHONOV, N.; TISHCHENKO, S.; FILIPPOV, B.; FOMENKO, N.; SHELKOV,
A.; SHEREMET'YEV, A.

Fedor Aleksandrovich Merkulov. Koks i khim.no.7:62 '56. (MLRA 9:12)
(Merkulov, Fedor Aleksandrovich, 1900-1956)

IVANOV, I., nauchnyy sotrudnik

Sugar beet, a high-profit crop. Nauka i pered. op. v sel'khoz. 8
no.8:65 Ag '58. (MIRA 11:10)
(Sugar beets)

11(4)

SOV/92-58-12-22/24

AUTHOR: Ivanov, I.

TITLE: Water Treatment of Distillates Reduces Consumption of Reagents (Vodnaya promyvka distillyatov sokrashchayet raskhod reagentov)

PERIODICAL: Neftyanik, 1958, Nr 12, p 27 (USSR)

ABSTRACT: Referring to the article by Ya.B. Chertkov and V.K. Zrelov, published in Neftyanik, 1958, Nr 3, under the title "Water Treatment of Petroleum Distillates", the author of the present article states that the method of removing hydrogen sulfide and mercaptans from distillates by water is very well known. However, it has not been widely used due to ^{the} extensive corrosion of equipment it causes, and due to contamination of refinery slops with hydrogen sulfide. Since the anticorrosive coating and alloy steel has been employed as refinery equipment material, this problem, in the opinion of the author, must be reexamined. According to views expressed by Chertkov and Zrelov in their article, the neutralization with caustics should be discontinued and substituted by water treatment. They substantiate their proposal by figures obtained from numerous experiments. Since the consumption of caustics at the refinery may be considerably reduced, if their proposal is accepted, the author believes that the question raised by Chertkov and Zrelov is very important and that a comprehensive study of the related material obtained from refineries in other regions should be made.

Card 1/1

IVANOV, I.

Coordinating research in the field of biological principles underlying the fishing industry in the republics of Central Asia and Kazakhstan. Izv. AN Kazakh. SSR. Ser. biol. no.2:95-96 '57.

(Kazakhstan--Fisheries--Research)

(MIRA 11:3)

(Soviet Central Asia--Fisheries--Research)

IVANOV, I.

Decision of the joint plenum of the Central Asiatic and West Siberian
Sections of the Ichthyological Commission of the Academy of Sciences
of the U.S.S.R. Izv. AN Kazakh. SSR. Ser. biol. no.2:97 '57.
(East Kazakhstan Province--Fisheries) (MIRA 11:3)

MENZHINSKIY, Ye.; IVANOV, I.

Some current aspects of world commerce. Vnesh. torg. 41 no.10:
16-25 '61. (MIRA 14:9)
(Commerce) (Communist countries--Foreign economic relations)

I V A N O V, I V.

Bulgaria/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 1594

Author: Ivanov, Iv., Chelibonova, Kh.

Institution: None

Title: Syntheses with α - and β -naphthaldehydes and β -hydroxy- α -naphthalhyde

Original

Periodical: Sintezi s α -i β -naftaldekhidi i β -oksi α -naftaldekhid, Nauch. tr. Vissh. veterinarnomed. in-ta, 1954/1955, 3, 213-221; Bulgarian; Russian resumé

Abstract: α -naphthaldehyde (I), β -naphthaldehyde (II) and β -hydroxy- α -naphthaldehyde (III) react with chloralhydrate (IV) and NH_3 analogously to other aromatic aldehydes (Spasov, Al., Ivanov, Iv., God. na Sofiyskiya un-t, 1941-1942, XXXXIII, 2) with formation of $\text{ArCH} = \text{NCH}(\text{OH})\text{CCl}_3$; Ar = α -naphthyl (V), Ar = β -naphthyl (VI) and Ar = β -hydroxy- α -naphthyl (VII). Mixture of 0.01 mol I, 0.01 mol IV and 6 ml C_6H_6 heated until IV is dissolved, cooled with

Card 1/2

Bulgaria Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61594

Abstract: stirring there are gradually added 2 ml 25% NH_3 , yield of V 90%, MP 135-136° (from benzene). Analogously was prepared VI, yield 90% MP 175-176° (from benzene), and VII, MP 159-160° (from benzene). By heating 0.01 mol VII and 6 g $(\text{CH}_3\text{CO})_2\text{O}$ (VIII) (2 hours, 50-60°) prepared acetate of VII (with $\text{CH}(\text{OH})$ -group), MP 189-190° (from alcohol) the structure of which is proved by synthesis from β -acetoxy- α -naphthaldehyde and chloral ammonia in anhydrous ether. From 0.01 mol V, 0.04 mol anhydrous Na_2CO_3 in 25 g ether and 0.02 mol CH_3COCl in 5 g ether is obtained acetate of V, yield 0.8-1 g, MP 175-176° (from alcohol), which on stirring with 0.5 g VIII in 15 ml ether and 0.2 g water is converted to α -naphthylideneacetamide (IX), MP 249-250° (from alcohol), while with phthalic acid anhydride (X) it gives a mixed arylidenediacylamide, MP 188-189° (from alcohol). Analogously from 0.01 mol V and 0.02 mol $\text{C}_6\text{H}_5\text{COCl}$ was synthesized the benzoate of V, MP 174-175° (from alcohol), which with X also forms a mixed arylidenediacylamide, MP 181-182° (from alcohol). IX is obtained on reacting VIII with V.

Card 2/2

Distr: 4E2c(j)/483d

✓ Condensation of bromal with aromatic aldehydes and ammonia. Al. Spasov and Iv. Ivanov. *Bulgar. Akad. Nauk., Invest. Khim. Ind.* 6, 102-124 (1958).—To 0.4 mole aldehyde and 0.4 mole bromal is added 4 ml, 25% aq. NH_3 dropwise and the solid filtered off after 24 hrs. to give $\text{RCH}=\text{NCH}(\text{OH})\text{CBr}_3$ (I), crystd. from C_6H_6 . The following I are prepd. (R, m.p., and % yield given): Ph (II), 128-8°; —; *p*- MeC_6H_4 , 129-31°; 44; *o*- MeOC_6H_4 , 119-20°; —; furyl, 125-6°; —; *o*- HOC_6H_4 , 135°. II (1.9 g.) in 10 ml. Et_2O with 1 g. AcCl in the presence of 2 g. Na_2CO_3 gives a ppt. which after one hr. is filtered off, and taken up in a little H_2O ; it 1st forms an oily layer, then solidifies in a few hrs.; crystd. from 70% EtOH it gives *N*-benzylidene-*N'*-acetylbenzaldiamine, m. 131.5°. The Et_2O filtrate yields on evapn. benzylidenediacetamide, m. 235-7°. Similarly, BzCl gives the benzoyl analogs, m. 149° and 223°, resp. G. Meguerian

4
1-BzC(BH)
2-9af'(NB)(noy)
2

IVANOV, I., kand.tekhn.nauk; BALAKHNIN, M., inzh.

Porous aggregates made from the ashes of a heat-and electric
power plant. Na stroi. Ros. no.5:26 My '61. (MIRA 14:7)
(Novosibirsk--Aggregates (Building materials))
(Ashes (Technology))

BULGARIA/Chemical Technology. Chemical Products and Their
Applications. Dyeing and Chemical Treatment
of Textile Materials.

II

Abstr Jour: Ref Zhur-Khin., No 3, 1959, 29903.

Author : Ivanov, I.

Inst :

Title : The High-Vacuum Metallization of Textile Wares with
Metal Vapors.

Orig pub: Leka Promishlenost Tekstil, 7, No 5, 18-20 (1958)
(in Bulgarian)

Abstract: The author discusses the technology and present state
of the process on the basis of data published earlier.
See RZhKhin, 1958, 63898. -- K. Markuze.

Card : 1/1

330

IVANOV, I.

IVANOV, I. Adjustment of logs for plywood. p. 29. Vol. 4, no. 8, 1955.
TEKHNICA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

IVANOV, I.

IVANOV, I. Device that permits use of sawdust instead of wood or coal for ordinary lime furnaces. p. 32. Vol. 5; no. 11, Nov. 1955. RATSIONALIZATSIA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, NO. 4--April 1957

IVANOV, I.

"Production of flat things from sawdust and shavings."

p.17 (Tekhnika, Vol. 6, no. 9, 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

IVANO, I. ; RASHEV, K.

"Continuously Operating Refrigerating Machinery Which Absorbs Without Pumps", P. 40., TEZHKA PROMISHLENOST, Vol. 3, No. 3, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

IVANOV, I., vrach.

Tick-borne encephalitis. Mast.lesa no.5:40 My '57. (MIRA 10:10)
(Encephalitis)

IVANOV, I.

Our honorary duty. HTG 2 no.1:28 Ja '60.
(MIRA 13:5)

1. Zamestitel' predsedatelya oblastnogo pravleniya Nauchno-
tekhnicheskogo obshchestva energeticheskogo promyshlennosti,
Moskva.

(Moscow--Electric power)

IVANOV, I., inzh.

Electric indicator for water level limits in boilers. Rech.transp.
19 no.10:39-41 0 '60. (MIRA 13:11)

(Liquid level indicators)

(Boilers, Marine)

IVANOV, I.; SERGEYEV, Yu.

Patents in the foreign trade practice of capitalist countries.
Vnesh.torg. 30 no.9:27-32 '60. (MIRA 13:9)
(Patent laws and legislation)

GILYBOV, Zh.; IVANOV, Il.; PENCHEV, P.; MISHEV, K.; NEDELCHEVA, V.;
DVORYADKIN, A.I., kand.geograf.nauk [translator]; RUTENYUM, Yu.Ya.,
red.; BELEVA, M.A., tekhn.red.

[Physical geography of Bulgaria] Fizicheskaia geografiia Bolgarii.
Moskva, Izd-vo inostr.lit-ry, 1960. 361 p.

(MIRA 14:4)

1. Direktor Instituta geografii Bolgarskoy akademii nauk, chlen-
korrespondent Bolgarskoy akademii nauk (for Gilybov).
(Bulgaria--Physical geography)

IVANOV, I.; SENGAYEV, Yu., kand.yuridich.nauk

Monopolies are on the offensive against inventors. Izobr.i rata.
no.6:46-49 Jp '60. (NIMA 14:2)
(Inventions) (Patents)

IVANOV, I., mladshiy nauchnyy sotrudnik

An invention "travels" abroad ("Fundamental problems of inventions in the international private law" by M.M.Boguslavskii). Reviewed by

I. Ivanov. Izobr.i rats. no.10:60-61 0'60. (MIRA 13:10)

1. Kon'yunkturnyy institut Ministerstva vneshney torgovli SSSR.
(Patents(International law)) (Boguslavskii, M.M.)

IVANOV, I., ing., conf. univ.; DOBRESCU, Al., ing. asist. (Bucuresti)

Discussions on a problem of Leonardo da Vinci. Gaz mat fiz
no.12:686-693 D '63.

SERGEYEV, Yu.; IVANOV, I.

Trade marks in the foreign trade of capitalist countries. Vnesh.
torg. 41 no.2:33-38 '61. (MIRA 14:2)
(Trade-marks (International law))

SIMEONOV, Iordan, k. t. n. dots. inzh.; IVANOV, Iachko, inzh.

Supplementary addition of large stones to the concrete
for dams. Khidrotekh i melior 7 no.6:173-175 '62.

IVANOV, Ilia, dots.

Geomorphology of the Dimitrovo Basin. Godishnik biol 53
no.3:1-48 '58/'59 [publ. '60].

1. Redaktor, "Godishnik na Biologo-geologo-geografskia
fakultet."

IVANOV, Iliia, dots.

Geomorphology of the Radomir Basin. Godishnik biol 54 no.3:1-45
'59/'60 [publ. '61].

1. Redaktor, "Godishnik na Biologo-geologo-geografskia fakultet."

IVANOV, I., mladshiy nauchnyy sotrudnik

Speculators in the field of health. Izobr.i rats. no.2:58-59 F
'61. (MIRA 14:2)

1. Kon'yunkturnyy institut Ministerstva vneshey trgovli SSSR.
(United States---Drug industry)

- 1/2 -

1. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
2. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
3. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
4. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
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6. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
7. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
8. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
9. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)
10. "The Soviet Union is a country which is not only a member of the United Nations, but also a member of the United Nations Security Council." (p. 10-11)

MIKHAILOV, Tsv.; IVANOV, Il.

Geomorphologic division of the region at the foot of Pirin Mountains and the valley of the Struma River between the Slashka River and Melnishka River in view of the appearance of erosion.
Izv Geog inst BAN 7:73-89 '63.

IVANOV, Iliia, inzh.

Programmed training of technical cadres with the aid of
machines. Tekh delo 501: 3, 30 N '63.

IVANOV, Illia, inzh.

New stage in the conquest of the cosmos. Tekh delo 498 1
9N '63.

KHARALAMBIEV, Kharalambi: IVANOV, Zlila

Cultivation of the swine enzootic pneumonia virus. Sel'skostonauka 2 no.10:1275-1278 '63.

IVANOV, Iv.

SURNAME (in caps); Given Names

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: not indicated

Source: Sofia, Khigiena, No 1, Jan/Feb 61, pp 25-27

Data: "New Soviet Methods of Atmospheric Air Research."

IVANOV, Ivan

Computing labor productivity in building. Trud tseñi 4
no.1:32-41 '62.

IVANOV, Ivan

Biological and economic properties of some varieties of Italian wheat.
Selskostop nauka 1 no.7/8:739-744 '62.

1. Selskostopanski nauchnoizsledovatel'ski institut v Karnobat.

STOIANOV, Velichko, inzh.; IVANOV, Ivan, inzh.; SAVOV, Ivan, inzh.;
ZUMPALOV, Georgi, inzh.

Possibilities of applying chamber blast in the open-pit
mines and quarries. Tekhnika Bulg 12 no.7:16-19 '63.

SOV/44 - 58 - 4 - 2662

Translation from: Referativnyy zhurnal, Matematika, 1958,
Nr 4, p 9 (USSR)

AUTHOR: Ivanov, I.

TITLE: On the Graphic Interpretation of the Transformations
of Equations (O graficheskoy interpretatsii preobra-
zovaniy uravneniy)

PERIODICAL: Uch. zap. Pskovsk. gos. ped. in-ta, 1957, Nr 4,
pp 283 - 301

ABSTRACT: An article on methods of solution of equations
(algebraic and certain transcendental equations) in secondary
school.

Card 1/1

IVANOV, I., kand.ekonom.nauk

Under the wardship of militarists. Izobr.i rats. no.3:34-35
Mr '62. (MIRA 15:2)
(United States--Universities and colleges)

IVANOV, Ivan

Bulgaria

No degree listed

Department of Obstetrics and Gynecology at the Higher
Medical Institute (Vissh Meditsinski Institut), Sofia;
Department Head: Professor IL. SHPURKALEV.

Sofia, Akusherstvo i Ginekologiya, supplement of Suvre-
menna Meditsina, No 2, 1962, pp 3-13

"The Effect of Malva Silvestris Root Extracts on Guinea
Pigs and Albino Mice in View of the Etiopathogenesis
and Treatment of Some Criminal Abortion Cases"

MONDESHKI, M. L., prof.; POPOV, Iv.; IVANOV, Iv.

Silicotuberculosis. Izv. inst. klin. obsht. med. 4:241-252 '60.

(SILICOSIS compl)

(TUBERCULOSIS PULMONARY compl)

S/194/61/000/010/028/082
D222/D301

9.7100

AUTHOR:

Ivanov, Ivan

TITLE:

Logical circuits with semiconductor devices

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 10, 1961, 30, abstract 10 B202 (Tranzistorni
bezkontaktni releyni elementi. Elektroenergiya,
1960, 11, no. 12, 16-20, bolg)

TEXT:

Four basic types of logical circuits are enumerated and briefly characterized, and the circuit diagram and operation of an electronic switch with transistors described. The application of transistors makes it possible to obtain combined logical circuits with two outputs of types "AND-NOT" and "OR-NOT" containing few elements. Thermal compensation is obtained through using additional resistors which feed the bias voltage to the base of the output transistor. Decoupling of the inputs to the logical circuits is accomplished by transistors. The number of transistors in an "AND-

Card 1/2

Logical circuits...

S/194/61/000/010/028/082
D222/D301

NOT" circuit with n inputs is equal to $n + 1$, in an "OR-NOT" circuit it is 2. It is indicated that suitable transistors for logical and trigger cells are types П-13 (P-13), П-14 (P-14) and П-15 (P-15). An example of calculating "AND" and "OR" circuits with the transistor P-13 is given. The paper contains a circuit diagram for an output pulse circuit to drive a power contactor, and an example of calculating the elements of a unit which can be loaded by the coil of the КП500 (KP500) type contactor is given. It is indicated that the primary fields of application for contactless logical circuits are industries which handle dirty or flammable materials - mixing and briquette factories, mills, mines, metallurgical factories and others. 8 figures. 3 references. [Abstracter's note: Complete translation]

Card 2/2

IVANOV, Ivan
CA

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Condensation of dichloroacetaldehyde with aromatic aldehydes and ammonia. Aleksand'r Spasov and Ivan Ivanov. *Annuaire univ. Sofia, Faculté sci.* 44, Livre 2, 187-01 (1947-48).—It has been established that $\text{Cl}_2\text{CH}-\text{CHO}$ (I) may be condensed with aromatic aldehydes and NH_3 to form mixed aldehyde- NH_2 compds. with the structure $\text{ArCH}:\text{NCH}(\text{OH})\text{CHCl}_2$ (II). Their compn. agrees with this structure; they behave like I, chloral hydrate, and Ph_2CHCHO , which form Schiff HO bases with aromatic aldehydes and NH_3 . This behavior of the above aldehydes depends perhaps upon the neg. Cl atom or the Ph group present. The II were prepd. by treatment of equiv. quantities of the 2 aldehydes in CaH_2 with aq. NH_3 with cooling. They are hard, cryst., unstable substances, decomp. after a few hrs. at the usual temp. Only at lower temps. do they remain undecompd. for a longer time. The furfurylidene compd. is relatively more stable. The II were quantitatively hydrolyzed to I, splitting off the aromatic aldehyde and NH_3 , by dil. HCl . $\text{PhCH}(\text{NHOCCH}_3)_2$ from Ac_2O in Et_2O soln., m. 236° . The following II were prepd. (ArCH given): *benzylidene*, m. $66-7^\circ$; *cinnamylidene*, m. $97.5-8^\circ$; *furfurylidene*, m. $111-12^\circ$. Anisaldehyde and *p*- $\text{MeC}_6\text{H}_4\text{CHO}$ give under similar conditions only viscous, noncrystallizable condensation products. P. S. Boig

IVANOV Iv. The precancerous state and its importance Annales Medico-chir., 1934, 33, 1-6
(334-337)

So: Medical Microbiology and Hygiene, Section IV, Vol 3, No. 1-6

IVANOV, Ivan dr.

KRISTANOV, Tsvetan A., akad.; STOIANOV, Stoine, d-r; IVANOV, Ivan, d-r.

Organization of control of control of venereal diseases in Sofia during 1952. Izv. med. inst., Sofia Vol. 9-10:17-27 1954.

1. Institut za Klinichna i Obshchestvena Meditsina (Direktor: Akad. Tsv. Kristanov) pri Ban i Gradski Kozhno-Venerologicheski Dispanser (Glaven Lekar: St. Knach. Sutr. pri Ban d-r St. Stoianov), Sofia.
(VENEREAL DISEASES, prevention and control,
Bulgaria)

IVANOV, Ivan
KRISTANOV, Tsvetan A., akad.; STOIANOV, Stoine, d-r; IVANOV, Ivan, d-r

Syphilis in Sofia in 1952. Izv. med. inst., Sofia Vol. 9-10:
29-57 1954.

1. Institut za Klinichna i Obshchestvena Meditsina (Direktor: Akad.
Tsv. Kristanov) pri Ban i Gradski Koshno-Venerologicheski Dispanser
(Glaven Lekar: St. Nauch. Sutr. pri Ban. St. Stoinov), Sofia.
(SYPHILIS, epidemiology,
Bulgaria)

IVANOV Ivan, dr.

KRISTANOV, Tsvetan A., akad.; STOIANOV, Stoine, d-r; IVANOV, Ivan, d-r.

Gonorrhea in Sofia in 1952. Izv. med. inst., Sofia Vol. 9-10:
59-99 1954.

1. Institut za Klinichna i Obschestvena Meditsina (Direktor: Akad.
Tsv. Kristanov) pri Ban i Gradski Kozhno-Venerologicheski Dispanser
(Glaven lekar: St. Nauch. Sutr. pri Ban St. Stoianov), Sofia.
(GONORRHEA, epidemiology,
Bulgaria)

IVANOV, Ivan

STOIANOV, Stoine, d-r; IVANOV, Ivan, d-r; NICHIEV, Liuben, d-r

Gonorrhea in children. Izv. med. inst., Sofia Vol. 9-10:101-112
1954.

1. Institut za Klinichna i Obshchestvena meditsina (direktor: Akad.
Tsv. Kristanov) pri Ban i Gradski Kozhno-Venerologicheski Dispanser
(Glaven Lekar: St. Nauch. Sutr. d-r St. Stoianov), Sofia.
(GONORRHEA, in infant and child,)

IVANOV, I.

"Health Exhibition is Opened." p. 1,
(ZDRAVEN FRONT, No. 47, Nov. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

STOLANOV, Stoine, d-r; IVANOV, Ivan, d-r;

Spidermophytosis in bath-house workers in Sofia. Izv.med.inst.
Sofia 11-12:313-328 1955.

1. D-r Stoine Stoiarov, st.nauchen Sutrudnik pri BAN, i d-r
Ivanov, Ivan, zav.otdelenie pri Sof.gradski kozhno-venerologichen
dispanser. Seksia za dermatovenerologia (zav.akad.Tavetan
Kristanov) na Instituta za klinichna i obshchestvena meditsina
pri BAN.

(SKIN, diseases,
fungus dis. in bath-house workers in Bulgaria)
(FUNGUS DISEASES,
skin, in bath-house workers in Bulgaria)
(OCCUPATIONAL DISEASES,
fungus skin dis. in bath-house workers in Bulgaria)

KRISTANOV, Tsvetan akad; STOIANOV, Stoine, st.nauchen sutrudnik d-r.
IVANOV, Ivan; nauchen sutrudnik d-r; GROZDANOV, Anton, d-r.

Syphilis in Sofia during 1953 and its therapy. Izv.med.inst.,Sofia
11-12:391-411 1955.

1. Sektsiia za dermatovenerologii (zav.:akad.Tsvetan Kristanov)
na instituta za klinichna i obshchestvena meditsina pri ban i
sofiski gradski kozhno-venerologichen dispanser (glav.lekar:
d-r Stoine Stoianov)

(SYPHILLIS, epidemiology,
in Bulgaria)

KRISTANOV, Tsvetan, Akad.; STOIANOV, Stoine, st.n.sutr.dr; IVANOV,
Ivan, dr; NICHEV, Liuben, dr; GROZDAKOV, Anton, d-r.

Gonorrhea in Sofia in 1953. Izv.med.inst.Sofia 11-12:413-443
1955.

1. Sektsia za dermatovenerologia (sav.:akad.Tsvetan Kristanov)
na instituta za klinichna i obshchestvena meditsina pri ban i
sofiiski gradski kozhno-venerologichen dispanser(glav.Lekar:
d-r Stoine Stoitianov)
(GONORRHEA, epidemiology,
in Bulgaria)

IVANOV, Ivan, doktor

Disorders of sexual functions in chronic prostatitis. Izv.med.
inst.Sofia 11-12:509-522 1955.

1. Institut za klinichna i obshchestvena meditsina (dir.:akad.
Tsvetan Kristanov) pri BAN
(PROSTATITIS,
sexual funct.in)
(COITUS,
in prostatitis)

IVANOV, Ivan, d-r.

~~1. Sektsiia za dermatovenerologiya~~
Diffuse moniliasis in infants. Izv.med.inst.,Sofia 11-12:523-536
1955.

1. Sektsiia za dermatovenerologiya (zav.:akad.Tsvetan Kristanov)
na instituta za klinichna i obshchestvena meditsina pri BAN i
Sofijski gradski kozhno-venerologichen dispanser (glav.Lekar:
d-r Stoine Stoianov)

(MONILIASIS, in infant and child,)

STOIANOV, Stoine, d-r, st.nauch.sutr.; IVANOV, Ivan, d-r.

Case of Hailey-Hailey disease (pemphigus chronicus benignus familiaris) Izv.med.inst.Sofia 11-12:565-574 1955.

1. Institut za klinichna i obschestvena meditsina (dir.-akad. Tsvetan Kristanov) pri BAN i Sofiiska gradski kozhno-venerologichen dispanser.

(PEMPHIGUS,
chronic benign familial, case report)

IVANOV, I.

TOSHEV, G., Prof.; ILIEV, G.; IVANOV, Iv.

Listeria monocytogenes as an etiologic factor in abortion.
Khirurgia, Sofia 9 no.7-8:573-581 1956.

1. Vlash meditsinski institut--sofia akumero-ginekologichna
klinika Zav. katedrata: prof. G. Toshev nauchnoizsledovatel'ski
veterinaren bakteriologichen, parazitologichen i epizootologichen
institut. Direktor: Iv. Chenchev.

(*LISTERIA*, infections,

monocytogenes causing abortion (Bul))

(ABORTION, etiology and pathogenesis,

Listeria monocytogenes infect. (Bul))

Ivanov, I.
TOSHEV, G., prof. ILIYEV, G.; IVANOV, I.

Listerilosis in obstetrics. Akush. i gin. 32 no.6:70-71 N-D '56.
(MIRA 10:11)

1. Iz kafedry akusherstva i ginekologii (zav. p prof. G.Toshev)
i NIVBPEI (dir. Iv.Chenchev) Sofiya.

(LISTERIA, infect.

monocytogenes, causing abortion)

(ABORTION, etiol. and pathogen.

Listeria monocytogenes)

I V A N O V
VASILEV, B.; IVANOV, I.

Transitory form between Brenner's tumor and granulosa cell tumor
of ovaries. Khirurgia, Sofia 10 no.2:165-167 1957.

(BRENNER'S TUMOR, case report
transitory form between Brenner's tumor & granulosa cell
tumor of ovaries (Bul))
(GRANULOSA CELL TUMOR, case report
same)

STOYANOV, S., starshiy nauchnyy sotrudnik; IVANOV, I.; NAUMOVA, D., ordinator

Detection of chronic gonorrhea in women [with summary in English].
Vest.derm. i ven. 32 no.2:64-67 Mr-Apr '58. (MIRA 11:4)

1. Iz Instituta klinicheskoy meditsiny ^Bolgarskoy akademii nauk
(zav. dermatologicheskoy sektiyei - akad. TS.Kristanov) i iz
Sofiyaskogo gorodskogo dermato-venerologicheskogo dispansera (zav. -
d-r St.Stoyanov)

(GONORRHEA, prev. & control
case-finding among Russian women (Rus))

LIPCHEV, G.; BOZHANCHEV, P.; IVANOV, Iv.

Cortisone-antibiotic therapy of influenza. Suvrem med., Sofia no.4:
63-66 '60.

L. Iz Obedinenata gradska bolnitsa, Omurtag (Glaven lekar: An.Krustev)
(INFLUENZA ther)
(CORTISONE ther)
(ANTIBIOTICS ther)

MITOV, An.: IVANOV, Iv.

Isolation of *L.canicola* from a patient. Suvrem med., Sofia no.6:
87-89 '60.

1. Iz Katedrata po propedeutika na vutreshnite bolesti pri VMI
"I.P.Pavlov", Plovdiv (Rukovod. na katedrata: prof. A.Mitov)
(LEPTOSPIROSIS case reports)

STOYANOV, S., doktor; KONSTANTINOV, A., doktor; IVANOV, I., doktor;
GROZDANOV, A., doktor

Studies on dermo-hypodermatitis. Vest.derm.i ven. no.8:21-25
'61. (MIRA 15:5)

1. Iz gorodskogo kozhno-venerologicheskogo dispensera Sofii
(glavnyy vrach - starshiy nauchnyy sotrudnik doktor S. Stoyanov).
(SKIN--DISEASES)

MITOV, A.; YANKOV, N.; IVANOV, I., Narodnaya Respublika Bolgariya

Recent data on the problem of leptospirosis in Bulgaria. Zhur.
mikrobiol., epid. i immun. 32 no.10:65-67 0 '61. (MIRA 14:10)
(BULGARIA--LEPTOSPIROSIS)

STOIANOV, St.; IVANOV, Iv.; LAZAROV, B.

On the problem of syphilis of the nervous system in Bulgaria. Izv.
inst. klin. obsht. med. 4:129-144 '60.

(NEUROSYPHILIS statist)

IVANOV, Ivan

Effect of *Malva silvestris* root extracts on guinea pigs and white mice with special reference to the etiopathogenesis and therapy of some cases of criminal abortion. *Akush. ginek (Sofia)* 1 no.2:3-13 '62.

1. Katedra po akusherstvo i ginekologiya pri VMI [Vissh meditsinski institut] Sofia. Rukovoditel prof. Il. Shturkalev.
(PLANTS extracts) (ABORTION CRIMINAL)

BULGARIA

I. IVANOV, First Tuberculosis Hospital (Purva tuberkuloznata bolnitsa)
Chief Physician (glavni lekar) Dr A. KISOV, Sofia.

"Dynamics of Tuberculin Allergy in Adult Tuberculosis Patients."

Sofia, Suvremenna Meditsina, Vol 13, No 10, 1962; pp 8-14.

Abstract [English summary modified]: Evaluation of degree of response to Pirquet (antigen diluted 50% with alcohol) done at 3-4 week intervals in each of 42 male and 93 female patients (total 467 tests); correlation with treatment results (mainly isoniazid); clinical details, discussion. The variability of the reaction at various times in the same person is stressed. Four tables, no references.

[1/1]

IVANOV, N.; IVANOV, I.

Comparative serological investigations in infectious non-specific rheumatoid polyarthrits. Vop. revm. 3 no.4:26-30
O.D '63. (MIRA 17:2)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof. A. Mitov) Vysshago meditsinskogo instituta imeni I.P. Pavlova, Plovdiv.

KOZHEMYAKIN, N., prof.; BUTYAGIN, V., dotsent; IVANOV, I., dotsent;
LISTOPAD, V.

Effect of cattle feeding with bagasse on the bone tissue.
Mias. ind. SSSR 34 no.5:47-48 '63. (MIRA 16:11)

1. Leningradskiy veterinarnyy institut.

BULGARIA

IVANOV, Ivan, Dr, Senior Assistant at Veterinary College (Starshi asistent vuv VVMI,) [Sofia.]

"Effect of Some Methylpolysiloxane Preparations in Acute Bloat in Cattle."

Sofia, Veterinarna Sbirka, Vol 60, No 5, 1963; pp 13-15.

Abstract: Report of studies on anti-foaming preparations Rumenzil, Silibovon and Sikaden in 26 cows with bloat: all 3 preparations are effective in breaking up the foam but this often results merely in excess gass formation as none of the preparations facilitates eructation. On the other hand, naphtha does, so combined treatment may be required. Four 'rumenograms'.

1/1

7

SUMMARY

IVANOV, Dr Ivan; SEKOV, Dr Ivan; STAMENOV, Dr Boris; and PETROV, Dr
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619030003-9

"Concerning Anaplasmosis Among Sheep in Bulgaria."

Sofia, Veterinarna Sbirka, Vol 60, No 10, 1963, pp 8-10.

Abstract: The disease had long been noted elsewhere but was recorded in Bulgaria for the first time in 1960 as occurring among sheep (cattle cases had been recorded in Bulgaria as early as 1938). The author describes the clinical symptoms. Antibiotics such as terramycin, tetracyclin, and biomycin have been effective in treatment. The basic preventive device is to kill the carrier ticks. The economic loss is significant in terms of meat and milk.

No references.

1/1

STOYANOV, S.; IVANOV, I.

Autoantibodies in some dermatoses detected by the indirect
Coombs' test. Vest. dermat. i ven. 38 no.1:18-21 Ja '64.

1. Sofliyskiy dispanser kozhnykh i venericheskikh bolezney
(glavnyy vrach S. Stoyanov). (MIRA 17:8)

IVANOV, Iv.; ANGELOV, Al.; VASILIAN, .; RAKILOVSEVA, Iv.

Att. pted control of blood loss and complications in legal abortion under total baytinal anesthesia using intravenous methylergometrine. Akush. ginek. (Sofia) 3 no.4:81-84 '64.

IVANOV, I.; DEMITROV, D.; IVANOVA, A., Lekhn. sobr.

Estrogens and the hemogram. Akush. ginek. (Sofia) 3 no.4:
61-65 '64

L 43867-66

ACC NR: AP6032572

SOURCE CODE: BU/0011/65/018/012/1123/1126

AUTHOR: Ivanov, I.; Ognyanov, I.

ORG: Tobacco Research Institute, Plovdiv; Institute of Organic Chemistry, BAN, Sofia

TITLE: Solanesol and its esters from neutral extractive fraction of Bulgarian Oriental tobacco

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 12, 1965, 1123-1126

TOPIC TAGS: ester, resin, processed plant product, fatty acid

ABSTRACT: The authors reported earlier (Compt. rend. Acad. bulg. Sci., 16, 1963, no. 3, 293) on the extraction of the neutral fraction from the resins of the highly aromatic Bulgarian Oriental tobacco, Djebel, and on the isolation and identification of certain of its components. The present article concentrates on solanesol and the esters of higher fatty acids from the same type of tobacco. Results, presented in 2 tables confirm that these compounds are specific to tobacco. In view of their abundance in fermented tobacco leaves (about 0.40 p. o.), they may be expected to play a certain role in the formation of smoking and aromatic properties. This paper was presented by Academician D. Ivanov on 22 July 1965. Orig. art. has: 2 tables. [Orig. art. in Eng.] [JPRS: 36,464]

SUB CODE: 07, 06 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 007

Card 1/1 *egh*

L 34751-66

ACC NR: AP6026266

SOURCE CODE: BU/0011/65/018/007/0601/0602

AUTHOR: Ivanov, I.; Stanilov, G.

ORG: none

TITLE: Geometrical interpretation of certain differential forms and invariants in the biaxial surface theory $\frac{2}{3}$

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 7, 1965, 601-602

TOPIC TAGS: mathematic space, differential geometry

ABSTRACT: In an earlier paper I. B. Ivanov (Dokl. BAN, 14, 1961, no. 1, 11) established the differential geometry apparatus for surfaces within the hyperbolic biaxial space B_3 . The paper contained a system of equations.

$$\begin{aligned} M_{1n} &= aM_1, \\ M_{1v} &= \beta M_1 + M_3, \\ M_{2u} &= aM_2 + M_1, \\ M_{2v} &= \beta M_2, \\ M_{3u} &= FM_1 + aM_3, \\ M_{3v} &= BM_1 - 3\beta M_3, \\ M_{4n} &= AM_2 - 3aM_4, \\ M_{4v} &= -FM_2 + \beta M_4. \end{aligned} \quad (1)$$

Card 1/2

L 34751-66

ACC NR: AP6026266

where

$$M = M_1 + M_2$$

(2)

represented a point on the surface. The present paper offers a geometrical interpretation of the differential invariants A , B , F , , and and the interpretation (in the form of two theorems) of zeros as lines of certain quadratic forms. This paper was presented by Corresponding member BAN B. Petkanchin on 5 April 1965. Orig. art. has: 14 formulas. [Orig. art. in Russian] [JPRS: 33,545]

SUB CODE: 12 / SUM DATE: none / ORIG REF: 001

Card 2/2 ULR

BULGARIA

GATEV, V., I. IVANOV, Laboratory of Physiology, Research Institute of Pediatrics, Sofia

"A Method of Investigating Skin Polarization in Man"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 3, 1966, pp 253-255

Abstract: [English article] The usual methods for skin polarization investigation in animals are not suitable for research with humans. Consequently, the authors developed a new method described in this paper, which estimates the skin polarization of man by measuring the electrical resistance of the skin. It uses frequencies of 2,000 and 25,000 c/sec and a voltage of 350 mV. Tests on a large number of patients indicate that the mean values of the polarization index measured on the volar side of the forearm in healthy children ranging in age from 1 to 14 years varies between 1,500 and 2,500 Ohms. The investigations of children suffering from rheumatism or rheumatoid arthritis showed substantial changes in the polarizational index, depending on the evolution of the disease. There are 1 Bulgarian and 5 Soviet references. (Manuscript received, 17 Dec 65.)

BABALYAN, B.; IVANOV, G.; GRUZDEV, A.; SERGEYEV, L.; IVANOV, I.

For a model main air route. Grazhd. av. 21 no.6:20-21 Je '64.
(MIRA 17:8)

KHARALAMBEV, Kh., nauchnyy sotrudnik; IVANOV, I.

In people's democracies. Veterinariia 41 no.3:208-211 My '64.
(MIRA 18:1)

1. Veterinarnyy protivochumnyy institut, Vratsa, Bolgariya.

IVANOV, I., kapitan

Care for the ideological hardening of young people. Komm. Vooruzh.
S11 3 no.14:71-76 J1 '63. (MIRA 17:9)

IVANOV, I., kapitan

Training friends for flight. Komm. Vooruzh. Sil 4 no.4:72-74
F '64. (MIRA 17:9)

STOIANOV, St.; IVANOV, I.

Antistreptolysin reaction in some skin diseases. Dermato
vener Sofia 1 no.3:12-14 '62.

1. Iz Gradskaia kozhno-venerologichen dispanser, Sofia
(gl. lekar St. Stoianov).
2. Chlen na Redaktionsen suvet, "Dermatologiya i venerologiya"
(for Stoianov).

IVANOV, I.

Therapy of experimental infections produced in guinea pigs by the intraperitoneal injection of non-sterile *Malva silvestris* root extracts by the administration of various types of antibiotics (penicillin, streptomycin and tetracycline). Akush. ginek. (Sofia) 3 no.1:33-43 '64

*

IVANOV, I.

Value of care. Nauka i tekhnolozhiya 15 no. 11: 15-16
N '63.

IVANOV, I.

Practical work in chemistry with the teachers of the Sliven District. Biol i khim 6 no. 3:60-61 '63.

1. Inspektor po Khiniia.

IVANOV, I.

"Improving the rolling qualities of the mining cars."

p.23 (Tezhka Promishlenost, Vol. 7, no. 3, Mar. 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

IVANOV, I.

"Synchronous electric motors and the new series of Soviet stations for their operation and protection."

ELEKTROENERGIJA, Sofia, Bulgaria, Vol. 10, no. 4, Apr. 1959.

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, ^{Sept.} Jun 59,
Unclas

IVANOV, I.

Geodesic lines of the first class of a biaxial space. Doklady
BAN 15 no.7:697-698 '62.

1. Vorgelegt von korr. Mitglied B. Petkantschin [Petkanchin, B.].

IVANOV, I.

Congruence of surfaces in the hyperbolic biaxial geometry.
Doklady BAN 17 no.8:685-688 '64.

1. Vorgelegt von korresp. Mitglied B. Petkancin [Petkanchin, B.].

LIST AND THE RESEARCH		PROCEDURES AND PROGRESS NOTES	
<p>CA</p> <p>1944 NOV 1 A</p>		<p>19</p> <p>A simple apparatus for the determination of air in ceramic masses. I. A. Ivanov, Zaporozhskaya Lab. 12, 700 (1946).--Smooth the surfaces of the cube-shaped sample (100-50 g.), put it in a small tray, place both in a beaker, cover the tray with an overturned funnel whose diam. is greater than that of the tray, add cold boiled water to reach above the tip of the funnel, and cover the tip of the funnel with a test tube filled with water. After several min., bubbles begin to sep. from the sample, collecting in the form of foam in the upper part of the test tube. Break up the foam by tapping or shaking the test tube. The vol. of air in the test tube is measured after 2-3 hrs. Completeness of the sepa. of air is checked by heating the beaker to the b. point. W. R. Henn.</p>	
<p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>		<p>RESEARCH NUMBER</p>	
<p>RESEARCH NUMBER</p>		<p>RESEARCH NUMBER</p>	

IVANOV, I.A.

Belgorod workers are raising the through-put capacity of equipment.
Stroi.mat. 9 no.9:23-25 8 '63. (MIRA 16:10)

1. Direktor Belgorodskogo kombinata asbestotsementnykh izdeliy.

IVANOV, I.A.

Results of a graphic computation of the predictability of air temperatures
in Moscow. Trudy TSNIGMA no.1:50-64 '50. (MIRA 6:9)
(Moscow--Atmospheric temperature) (Atmospheric temperature--Moscow)

PARAMONOV, G.A., inzh.; PICHUGIN, A.A., kand.tekhn.nauk; VANYEV, V.A.,
inzh.; KUZ'MINSKIY, A.G., inzh.; CHUYKO, A.V., kand.tekhn.nauk;
VRUBLEVSKIY, L.Ye., inzh.; FURMAN, A.Ya., inzh. [deceased];
PEGANOV, G.N., inzh.; SHEFANOV, A.S., inzh.; DMITRIYEV, P.A.,
kand.tekhn.nauk; IVANOV, I.A., kand.tekhn.nauk; TEMKO, Yu.P.,
dotsent; SOKOLOV, P.K., dotsent; KANYUKA, N.S., kand.tekhn.nauk;
SHPAKOVSKAYA, L.I., red.; GOSTISHCHEVA, Ye.M., tekhn.red.

[Handbook for the master builder on the technology of general
building operations] Spravochnik mastera-stroitel'ia po tekhnologii
proizvodstva obshchestroitel'nykh rabot. 2. izd.perer. i dop.
Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1961. 713 p.

(MIRA 15:2)

(Building)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSING AND PRESENTATION ORDER																			
<p>IVASHOV, I. A.</p> <p>C</p> <p>Mundyash (Chugunash) quartzites. I. A. IVASHOV. Oryskopiy, 12 (2) 57-70 (1947).—Quartzite of the Mundyash (Chugunash) deposits, on the right bank of the Mundyash River about 183 km. from the city of Stalinsk, is a cryptocrystalline quartz hornblende. Characteristic of this quartzite is the presence of Mn, frequently in the form of pyrolusite. During firing, transformation is slow and incomplete. After firing, the lumps showed occasional cracks but retained their strength and dense structure. Dinas brick made from this quartzite had a specific gravity of 2.35, a compressive strength of 478 kg./cm.², a porosity of 18.3 to 17.0%, and refractoriness of 1730°C. The brick was used in the roof of an open-hearth furnace for 145 heats; hot repairs were made after 90, 108, and 120 heats, mostly near the front wall. The bricks fused together. The chief drawback is the formation of ferrous and alkaline "outcroppings." Cf. this issue, p. 103A. B.Z.K.</p>																			
<p>ASH-51A METALLURGICAL LITERATURE CLASSIFICATION</p> <p>FROM CITING DATA</p> <p>RELATIONS:</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20</p> <p>21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40</p> <p>41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60</p> <p>61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80</p> <p>81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>																			

AGAFEYEV, N.I.; BALATOV, P.S.; ZVEREV, B.P.; IVANOV, I.A.; KHUGLYY, S.M.;
NIMTY, I.M.; FLEYSHMAN, V.G.; KHAIE, V.A.; SHUR, V.A.; ML'SKIY, V.N.

Condensation of a solution in vacuum evaporator installations.

Prom.energ. 15 no.4:15-16 Ap '60. (MIRA 13:6)

(Evaporating appliances)

USSR/Physics - Acoustics

Shock Waves

Oct 49

"Visible Explosion Waves," I. A. Ivanov

"Priroda" No 10, pp 94, 95

Review of Schmauss' surveys, compiled from reports of various observations of explosion waves, and discussion of the possible causes of visible explosion waves. The waves always have been observed in warm weather, and are seen against different backgrounds, i.e., clear blue sky, a thin high mist, a powdery cloud, or snow on

21271100

mountains. Material relating to the velocity of the waves, their color, and position relative to the sun would be of particular interest.

21271100

IVANOV, I. A.

IVANOV, I.A., inzhener.

~~XXXXXXXXXXXXXXXXXXXX~~
An automatic recorder for measuring the rise of arched furnace
roofs. Stal' 7 no.1:81-82 '47. (MLRA 9:1)

1.Kuznetskiy metallurgicheskiy kombinat.
(Open-hearth furnaces)

18.5000

75573

SOV/130-55-10-5/20

AUTHOR: Ivanov, I. A. (Gas Filter of Blast-Furnace Shop)

TITLE: Rational Order of Shifting Regenerators

PERIODICAL: Metallurg, 1959, Nr 10, p 9 (USSR)

ABSTRACT: For the proper maintenance of normal air temperatures, it is recommended that regenerators be shifted in the proper order. The most rational shifting arrangement was found to be I - II - III - IV (see Fig. 1). The straight airline will be heated and cooled gradually and more uniformly, allowing the more efficient maintenance of predetermined temperatures. There is 1 figure.

Card 1/2

Rational Order of Shifting Regenerators

75573

SOV/130-5-10-5/20

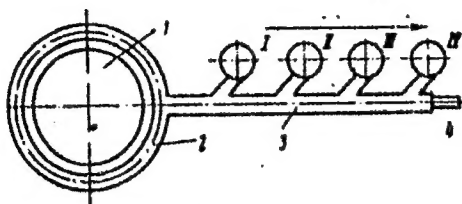


Fig. 1. (1) blast furnace, (2) ring airline, (3) straight airline, (4) air mixer. Roman numerals indicate regenerator numbers.

ASSOCIATION: Magnitorgorsk Metallurgical Combine (MMK)

Card 2/2